## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 2 June 2005 (02.06.2005)

## (10) International Publication Number WO 2005/049011 A1

- A61K 31/403, (51) International Patent Classification<sup>7</sup>: 31/407, 31/55, A61P 25/18, 25/22, 25/24
- (21) International Application Number:

PCT/HR2004/000051

(22) International Filing Date:

19 November 2004 (19.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

P20030954A 21 November 2003 (21.11.2003) HR

- (71) Applicant (for all designated States except US): PLIVA-ISTRAZIVACKI INSTITUT D.O.O. [HR/HR]; Prilaz baruna Filipovica 29, 10000 Zagreb (HR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MERCEP, Mladen [HR/HR]; Majstora Radonje 10, 10000 Zagreb (HR). MESIC, Milan [HR/HR]; Slavenskog 8, 10000 Zagreb (HR). PESIC, Dijana [HR/HR]; Prokljanska 18, 22000 Sibenik (HR).
- (74) Common Representative: PLIVA-ISTRAZIVACKI IN-STITUT D.O.O.; Pravni i Patentni Poslovi, Prilaz baruna Filipovica 29, 10000 Zagreb (HR).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF 1-AZA-DIBENZO[e,h]AZULENES FOR THE MANUFACTURE OF PHARMACEUTICAL FORMULA-TIONS FOR THE TREATMENT AND PREVENTION OF CENTRAL NERVOUS SYSTEM DISEASES AND DISORDERS

(57) Abstract: The present invention relates to the use of compounds from the group of 1-azadibenzo[e,h]azulenes and of their pharmacologically acceptable salts and solvates for the manufacture of a pharmaceutical formulation for the treatment and prevention of diseases, damages and disorders of the central nervous system (CNS) caused by disorders of the neurochemical equilibrium of biogenic amines or other neurotransmitters.